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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

### Complete if Known

Application Number	09/977,791
Filing Date	October 15, 2001
First Named Inventor	Patricia A. Morris
Group Art Unit	1741
Examiner Name	UNKNOWN
Attorney Docket Number	CL1713 US NA

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)				
		US -	4,007,435	02/08/1977	Tseng-Ying Tien	
		US -	4,151,503	04/24/1979	Michael J. Cermak, et al.	
		US -	4,225,842	09/30/1980	Harold D. Schleselman, et al.	
		US -	4,234,542	11/18/1980	Donald J. Romine	
		US -	4,387,359	06/07/1983	Tseng-Ying Tien, et al.	
		US -	4,535,316	08/13/1985	Harry P. Wertheimer, et al.	
		US -	4,542,640	09/24/1985	Paul K. Clifford	
		US -	4,770,760	09/13/1988	Makoto Noda, et al.	
		US -	5,239,483	08/24/1993	Donald J. Weir	
		US -	5,554,273	09/10/1996	Hollis C. Demmin, et al.	
		US -	5,630,920	05/20/1997	Karl-Hermann Friese, et al.	
		US -	5,731,510	03/24/1998	Barbara L. Jones, et al.	
		US -	5,736,028	04/07/1998	Ove Hjortsberg, et al.	
		US -	5,776,601	07/07/1998	Robert Gregory Fournier, et al.	
		US -	5,879,526	03/09/1999	Hermann Dietz, et al.	
		US -	6,012,282	01/11/2000	Nobuhide Kato, et al.	
		US -	6,082,176	07/04/2000	Noriaki Kondo, et al.	
		US -	6,084,418	07/04/2000	Masayuki Takami, et al.	
		US -	6,085,576	07/11/2000	Steven A. Sunshine, et al.	
		US -	6,235,243 B1	05/22/2001	Maximilian Fleischer, et al.	

### FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>6</sub>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
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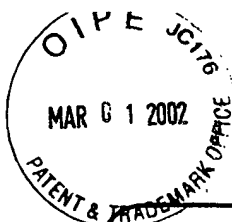
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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)  Sheet 2 of 3		<b>Complete if Known</b>	
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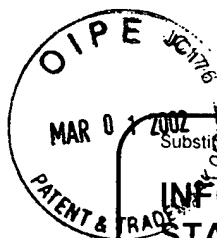
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		S.W. MOORE, et al., A modified multilayer perceptron model for gas mixture analysis, Sensors and Actuators B 15-16 (1993) pages 344-348, Elsevier Sequoia	<input type="checkbox"/>
		H. MEIXNER, et al., Metal oxide sensors, Sensors and Actuators B 33 (1996) pages 198-202, Elsevier Science	<input type="checkbox"/>
		J. GETINO, et al., Integrated sensor array for gas analysis in combustion atmospheres, Sensors and Actuators B 33 (1996) pages 128-133, Elsevier Science	<input type="checkbox"/>
		CORRADO DI NATALE, et al., Study of the effect of the sensor operating temperature on SnO <sub>2</sub> -based sensor-array performance, Sensors and Actuators B 23 (1995) pages 187-191, Elsevier Science	<input type="checkbox"/>
		BRENT T. MARQUIS, et al., A semiconducting metal oxide sensor array for the detection of NO <sub>x</sub> and NH <sub>3</sub> , Sensors and Actuators B 77 (2001) pages 100-110, Elsevier Science	<input type="checkbox"/>
		G. HUYBERECHTS, et al., Simultaneous quantification of carbon monoxide and methane in humid air using a sensor array and an artificial neural network, Sensors and Actuators B 45 (1997) pages 123-130, Elsevier Science	<input type="checkbox"/>
		KAZIMIERZ BRUDZEWSKI, et al., Gas analysis system composed of a solid-state sensor array and hybrid neural network structure, Sensors and Actuators B 55 (1999) pages 38-46, Elsevier Science	<input type="checkbox"/>
		P.C. JURIS, et al., Computational methods for the analysis of chemical sensor array data from volatile analytes, Chem Rev. 2000, 100, pages 2649-2678, American Chemical Society	<input type="checkbox"/>
		KEITH J. ALBERT, et al., Cross-reactive chemical sensor arrays, Chem. Rev. 2000, 100, pages 2595-2626, American Chemical Society	<input type="checkbox"/>
	P. VINCENZINI, et al., Solid state chemical and biochemical sensors, Advances in Science and Technology, 26, pages 335-345, National Research Center, Italy	<input type="checkbox"/>	
		ANTONIO PARADO, et al., Nonlinear inverse dynamic models of gas sensing systems based on chemical sensor arrays for quantitative measurements, IEEE Transactions on Instrumentation and Measurement, Vol. 47, No. 3, June 1998, pages 644-651	<input type="checkbox"/>

Examiner Signature	Date Considered 12/1/2003
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 3

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Application Number	09/977,791
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First Named Inventor	Patricia A. Morris
Group Art Unit	1741
Examiner Name	UNKNOWN
Attorney Docket Number	CL1713 US NA

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## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		BS HOFFHEINS, et al., Performance of simplified chemical sensor arrays in a neural network-based analytical instrument, Analysis (1992) 20, pages 201-207, Elsevier, Paris	<input type="checkbox"/>
		CORRADO DI NATALE, et al., Performance evaluation of an SnO <sub>2</sub> -based sensor array for the quantitative measurement of mixtures of H <sub>2</sub> S and NO <sub>2</sub> , Sensors and Actuators B, 20 (1994) pages 217-224	<input type="checkbox"/>
		H. MEIXNER, et al., Chemosensors for motor management systems of the future, Fresenius J. Anal. Chem. (1994) 348, pages 536-541	<input type="checkbox"/>
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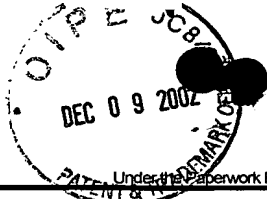
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Sheet 1 of 1

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		US -	5,832,411	11/03/1998	Lawrence A. Schatzmann, et al.	
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### FOREIGN PATENT DOCUMENTS

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		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
		EP	293 255		11/30/1988			<input type="checkbox"/>
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Examiner Name	UNKNOWN
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## U.S. PATENT DOCUMENTS

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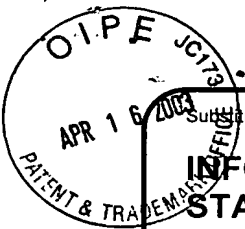
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Sheet 2 of 2

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		International Search Report for PCT/US 01/32138	<input type="checkbox"/>
BF		MARQUIS, A Semiconducting metal oxide sensor array for the detection of NO <sub>x</sub> and NH <sub>3</sub> , Sensors and Actuators B 77 (2001), pages 100-110, Orono, ME	<input type="checkbox"/>
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